Applied Industry 4.0

FESTO

The **Applied Industry 4.0** certification builds on foundational digital manufacturing knowledge by focusing on advanced system integration through the Industrial Internet of Things (IIoT), MES (Manufacturing Execution Systems), data safety, and real-time data processing. Learners work with real-world automation equipment to simulate and optimize smart production processes.

Through guided lab activities, students configure web services, integrate HMI applications, and apply 3D modeling to improve production efficiency. This course strengthens key technical skills necessary to thrive in connected manufacturing environments where data flows seamlessly across systems and networks.

Industry Recognized Certification Topics	Industry Recognized Certification Competencies
– Manufacturing Execution Systems (MES)	– MES Integration and Configuration
– Human Machine Interfaces (HMI) and Equipment Integration	– HMI System Integration
– Data Safety and Secure Communication	– Data Communication and Web Services
– 3D Modeling of Industrial Systems	– Data Security Awareness
– RFID Tracking and Product Identification	– Application of 3D Modeling
– Network Technology and Condition Monitoring	– Smart Factory Optimization
– Smart Production System Optimization	– RFID and Digital Identification

Units - 6 / Labs - 5

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